

# **JAVA SWING BASED – Crop disease severity- SQL CONNECTIVITY USING JDBC**

**A**

***Report***

***Submitted in partial fulfillment of the  
Requirements for the award of the Degree of***

## **BACHELOR OF ENGINEERING IN INFORMATION TECHNOLOGY By**

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# **BONAFIDE CERTIFICATE**

This is to certify that this project report titled  
***‘Crop disease severity’***  
is a project work of **T.Devi Srujana** bearing  
roll no. 1602-20-737-011 who carried out this  
project under my supervision in the IV  
semester for the academic year 2021- 2022

Signature  
External Examiner

Signature  
Internal Examiner

## **Abstract:-**

Disease severity tracker which is used for tracking the severity of the diseases. In the present situation it is very difficult for the farmers to find out how severe the disease is, to find they have to visit the persons who know about plants very well, where farmers have to spend more money on it. so This automated tracker provides a convenient way to track diseases severity. Farmers can ask any issues regarding diseases and its severity.

## **Requirement Analysis**

### **List of Tables:**

- Crop
- Diseases
- Factors
- Symptoms

### **List of Attributes with their Domain Types:**

Crop table

- ID NUMBER(5)
- NAME VARCHAR2(20)

Diseases

- ID NUMBER(5)
- DISEASE VARCHAR2 (50)

Factors

- ID NUMBER(5)
- FACTOR VARCHAR(50)

Symptoms

- ID NUMBER(5)
- HIGH VARCHAR(80)
- LOW VARCHAR(80)
- MEDIUM VARCHAR(80)

## **AIM AND PRIORITY OF THE PROJECT**

To create a **Java GUI-based** desktop application that connects students looking for internships with project managers looking for interns. It takes values like student name, username, DOB, College name, etc through forms which are then updated in the database using JDBC connectivity.

# ARCHITECTURE AND TECHNOLOGY

## **Software used:**

Java Eclipse, Oracle 11g Database, Java SE version 18, SQL\*Plus.

## **Java SWING:**

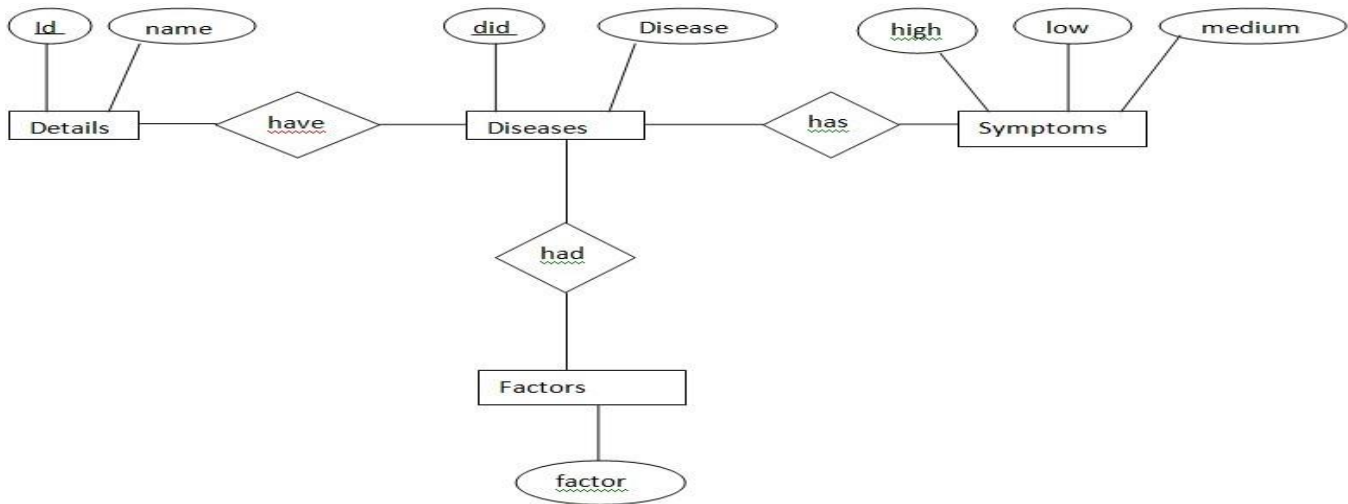
**Java SWING** is a GUI widget toolkit for Java. It is part of Oracle's Java Foundation Classes (JFC) - an API for providing a graphical user interface (GUI) for Java programs.

Swing was developed to provide a more sophisticated set of GUI components than the earlier AWT. Swing provides a look and feel that emulates the look and feel of several platforms, and also supports a pluggable look and feel that allows applications to have a look and feel unrelated to the underlying platform. It has more powerful and flexible components than AWT. In addition to familiar components such as buttons, check boxes and labels, Swing provides several advanced components such as tabbed panel, scroll panes, trees, tables, and lists.

## **SQL:**

Structure Query Language(SQL) is a database query language used for storing and managing data in **Relational** DBMS. SQL was the first commercial language introduced for E.F Codd's Relational model of database. Today almost all RDBMS (MySQL, Oracle, Infomix, Sybase, MS Access) use **SQL** as the standard database query language. SQL is used to perform all types of data operations in RDBMS.

# Entity Relationship Diagram



## DDL Operations:-

1. Create table crop(  
id number(5) primary key,  
name varchar2(20));

Run SQL Command Line

```
SQL> Create table crop(
  2      id number(5) primary key,
  3      name varchar2(20));

Table created.

SQL> desc crop;
Name                               Null?    Type
-----
ID                                  NOT NULL NUMBER(5)
NAME                               VARCHAR2(20)
```

2. Create table diseases(  
id number(5),  
disease varchar2(20),  
Foreign key(id) references crop);

Run SQL Command Line

```
SQL> Create table diseases(
  2      id number(5),
  3      disease varchar2(20),
  4      Foreign key(id) references crop);

Table created.

SQL> desc diseases;
Name                               Null?    Type
-----
ID                                  NUMBER(5)
DISEASE                            VARCHAR2(20)
```

3. Create table factors(

```
id number(5),
factor varchar2(50),
foreign key(id) references crop);
```

Run SQL Command Line

```
SQL> Create table factors(
2      id number(5),
3      factor varchar2(50),
4      foreign key(id) references crop);
```

Table created.

```
SQL> desc factors;
```

Name	Null?	Type
ID		NUMBER(5)
FACTOR		VARCHAR2(50)

```
SQL> _
```

4. create table symptoms(  
id number(5),  
high varchar2(80),  
low varchar2(80),  
medium varchar2(80),  
foreign key(id) references crop);

```
Run SQL Command Line

SQL> create table symptoms(
  2     id number(5),
  3     high varchar2(80),
  4     low varchar2(80),
  5     medium varchar2(80),
  6     foreign key(id) references crop);

Table created.

SQL> desc symptoms;
Name                                Null?    Type
-----
ID                                   NUMBER(5)
HIGH                                VARCHAR2(80)
LOW                                 VARCHAR2(80)
MEDIUM                             VARCHAR2(80)

SQL>
```

## DML COMMANDS:-

1. Inserting values into crop table

Syntax:- insert into crop values(&id,'&name');

```
Run SQL Command Line

SQL> insert into crop values(&id,'&name');
Enter value for id: 1
Enter value for name: Brown rice
old 1: insert into crop values(&id,'&name')
new 1: insert into crop values(1,'Brown rice')

1 row created.

SQL> /
Enter value for id: 2
Enter value for name: White rice
old 1: insert into crop values(&id,'&name')
new 1: insert into crop values(2,'White rice')

1 row created.

SQL>
```

```
Run SQL Command Line

SQL> select *from crop;

   ID NAME
-----
    1 Brown rice
    2 White rice

SQL>
```

## 2. Inserting values into diseases tables

Syntax :- insert into diseases values(&id,'&disease',&id);

```
Run SQL Command Line

SQL> insert into diseases values(&id,'&disease');
Enter value for id: 1
Enter value for disease: brown spot
old 1: insert into diseases values(&id,'&disease')
new 1: insert into diseases values(1,'brown spot')

1 row created.

SQL> /
Enter value for id: 2
Enter value for disease: bacterial leaf
old 1: insert into diseases values(&id,'&disease')
new 1: insert into diseases values(2,'bacterial leaf')

1 row created.

SQL>
```

```
Run SQL Command Line

SQL> select *from diseases;

      ID DISEASE
-----
      1 brown spot
      2 bacterial leaf

SQL>
```

## 3. Inserting values into factors tables

Syntax :- insert into factors values(&id,'&factors');

```
Run SQL Command Line

SQL> insert into factors values(&id,'&factors');
Enter value for id: 1
Enter value for factors: helminthosporium oryzae
old 1: insert into factors values(&id,'&factors')
new 1: insert into factors values(1,'helminthosporium oryzae')

1 row created.

SQL> /
Enter value for id: 2
Enter value for factors: bacterium xanthomonas oryzae
old 1: insert into factors values(&id,'&factors')
new 1: insert into factors values(2,'bacterium xanthomonas oryzae')

1 row created.

SQL>
```

```
Run SQL Command Line

SQL> select *from factors;

      ID FACTOR
-----
      1 helminthosporium oryzae
      2 bacterium xanthomonas oryzae

SQL>
```



## 4. Inserting values into symptoms tables

Syntax :- insert into symptoms values(&id,'&high','&low','&medium');

```
Run SQL Command Line

SQL> insert into symptoms values(&id,'&high','&low','&medium');
Enter value for id: 1
Enter value for high: brown spots coalesce and leaf dries up
Enter value for low: minute circular brown dots
Enter value for medium: brown dots in big size
old 1: insert into symptoms values(&id,'&high','&low','&medium')
new 1: insert into symptoms values(1,'brown spots coalesce and leaf dries up','minute circular brown dots','brown dots in big size')

1 row created.

SQL> /
Enter value for id: 2
Enter value for high: leaves become greyish white and brown and then finally the leaves dry
Enter value for low: dark green and water soaked streaks are seen
Enter value for medium: dark green becomes yellowish gray and translucent
old 1: insert into symptoms values(&id,'&high','&low','&medium')
new 1: insert into symptoms values(2,'leaves become greyish white and brown and then finally the leaves dry','dark green and water soaked streaks are seen','dark green becomes yellowish gray and translucent')

1 row created.

SQL>
```

```
Run SQL Command Line

      ID
-----
HIGH
-----
LOW
-----
MEDIUM
-----
      1
brown spots coalesce and leaf dries up
minute circular brown dots
brown dots in big size

      ID
-----
HIGH
-----
LOW
-----
MEDIUM
-----
      2
leaves become greyish white and brown and then finally the leaves dry
dark green and water soaked streaks are seen
dark green becomes yellowish gray and translucent

SQL>
```

# IMPLEMENTATION

## JAVA-SQL Connectivity using JDBC:

**Java Database Connectivity (JDBC)** is an application programming interface (API) for the programming language Java, which defines how a client may access a database. It is a Java-based data access technology used for Java database connectivity. It is part of the Java Standard Edition platform, from Oracle Corporation. It provides methods to query and update data in a database and is oriented towards relational databases.

The connection to the database can be performed using Java programming (JDBC API) as:

### Mainui.java

```
public class Mainui extends javax.swing.JFrame {
    public Mainui() {
        initComponents();
    }
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jLabel4 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

        jLabel1.setFont(new java.awt.Font("Segoe UI", 1, 36)); // NOI18N
        jLabel1.setForeground(new java.awt.Color(0, 255, 255));
        jLabel1.setText("Crop Disease Severity");
        getContentPane().add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(100, 60, 370, 56));

        jButton1.setText("Edit Data");
        jButton1.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
                jButton1ActionPerformed(evt);
            }
        });
        getContentPane().add(jButton1, new org.netbeans.lib.awtextra.AbsoluteConstraints(120, 170, 113, 57));

        jButton2.setText("Check_severity");
        jButton2.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {
```

```

        jButton2ActionPerformed(evt);
    }
});
getContentPane().add(jButton2, new org.netbeans.lib.awtextra.AbsoluteConstraints(310, 170, 120, 57));

jLabel2.setFont(new java.awt.Font("Segoe UI", 3, 18)); // NOI18N
jLabel2.setForeground(new java.awt.Color(255, 255, 0));
jLabel2.setText("Admin-Click on the button edit data to change data in table ");
getContentPane().add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(30, 280, -1, -1));

jLabel3.setFont(new java.awt.Font("Segoe UI", 3, 18)); // NOI18N
jLabel3.setForeground(new java.awt.Color(255, 255, 0));
jLabel3.setText("User-Click on the Check_severity to check the crop disease severity");
getContentPane().add(jLabel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(10, 300, -1, -1));

jLabel4.setIcon(new javax.swing.ImageIcon(getClass().getResource("/download (6).jpg"))); // NOI18N
jLabel4.setText("jLabel4");
getContentPane().add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 590, 420));

pack();
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-
FIRST:event_jButton1ActionPerformed
    Change_data c=new Change_data();
    c.show();
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-
FIRST:event_jButton2ActionPerformed

    Check_severity cs=new Check_severity();
    cs.show();
}
public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(Mainui.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(Mainui.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(Mainui.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(Mainui.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
}

```

```

java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new Mainui().setVisible(true);
    }
});
}
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
}

```

HOME-PAGE:-



## Change\_data.java

```

public class Change_data extends javax.swing.JFrame {
    public Change_data() {
        initComponents();
    }
    private void initComponents() {
        jButton4 = new javax.swing.JButton();
        jButton5 = new javax.swing.JButton();
        jButton6 = new javax.swing.JButton();
        jButton7 = new javax.swing.JButton();
        jButton1 = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();
        jMenuBar1 = new javax.swing.JMenuBar();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

        jButton4.setText("Crop");
        jButton4.addActionListener(new java.awt.event.ActionListener() {
            public void actionPerformed(java.awt.event.ActionEvent evt) {

```

```

        jButton4ActionPerformed(evt);
    }
});
getContentPane().add(jButton4, new org.netbeans.lib.awtextra.AbsoluteConstraints(70, 63, 144, 72));

jButton5.setText("Diseases");
jButton5.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton5ActionPerformed(evt);
    }
});
getContentPane().add(jButton5, new org.netbeans.lib.awtextra.AbsoluteConstraints(331, 64, 128, 71));

jButton6.setText("Factors");
jButton6.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton6ActionPerformed(evt);
    }
});
getContentPane().add(jButton6, new org.netbeans.lib.awtextra.AbsoluteConstraints(70, 255, 144, 71));

jButton7.setText("Symptoms");
jButton7.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton7ActionPerformed(evt);
    }
});
getContentPane().add(jButton7, new org.netbeans.lib.awtextra.AbsoluteConstraints(331, 255, 128, 71));

jButton1.setText("Back");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
getContentPane().add(jButton1, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 420, -1, -1));

jLabel1.setIcon(new javax.swing.ImageIcon(getClass().getResource("/download (6).jpg"))); // NOI18N
jLabel1.setText("jLabel1");
getContentPane().add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 580, 440));
setJMenuBar(jMenuBar1);

pack();
}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_jButton4ActionPerformed
    Detail e=new Detail();
    e.show();
}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_jButton5ActionPerformed
    Diseases d=new Diseases();
    d.show();
}

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) { //GEN-FIRST:event_jButton6ActionPerformed
    Factors f=new Factors();

```

```

        f.show();
    }

    private void jButton7ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_jButton7ActionPerformed

        Symptoms s= new Symptoms();
        s.show();
    }

    private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_jButton1ActionPerformed

        dispose();
    }

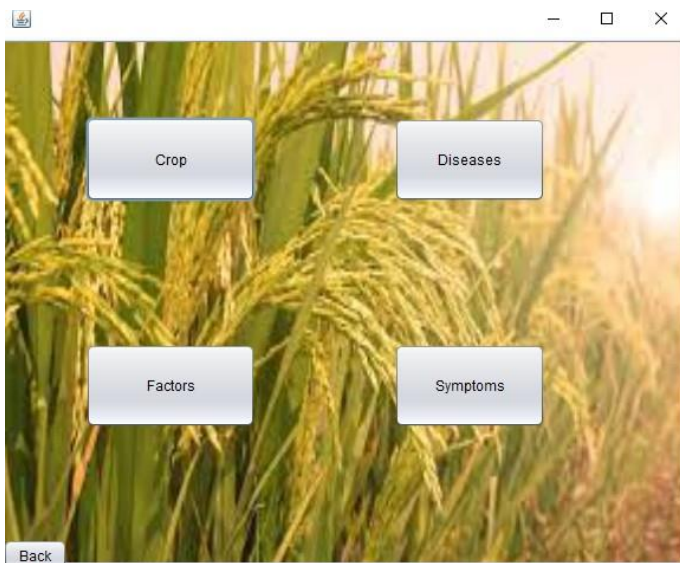
    public static void main(String args[]) {

        try {
            for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {
            java.util.logging.Logger.getLogger(Change_data.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (InstantiationException ex) {
            java.util.logging.Logger.getLogger(Change_data.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (IllegalAccessException ex) {
            java.util.logging.Logger.getLogger(Change_data.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        } catch (javax.swing.UnsupportedLookAndFeelException ex) {
            java.util.logging.Logger.getLogger(Change_data.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
        }
        java.awt.EventQueue.invokeLater(new Runnable() {
            public void run() {
                new Change_data().setVisible(true);
            }
        });
    }

    private javax.swing.JButton jButton1;
    private javax.swing.JButton jButton4;
    private javax.swing.JButton jButton5;
    private javax.swing.JButton jButton6;
    private javax.swing.JButton jButton7;
    private javax.swing.JLabel jLabel1;
    private javax.swing.JMenuBar jMenuBar1;
}

```

Edit Data:-



## Details.java

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
public class Detail extends javax.swing.JFrame {
    public Detail() {
        initComponents();
    }
    private void initComponents() {

        jTextField3 = new javax.swing.JTextField();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jTextField2 = new javax.swing.JTextField();
        jLabel3 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jButton4 = new javax.swing.JButton();
        jButton5 = new javax.swing.JButton();
        jLabel4 = new javax.swing.JLabel();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jLabel5 = new javax.swing.JLabel();

        jTextField3.setText("jTextField3");

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

        jLabel1.setText("Crop_ID:");
        getContentPane().add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(6, 87, 80, -1));
```

```
jLabel2.setText("Crop_Name:");
getContentPane().add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(6, 163, -1, -1));

jTextField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField1ActionPerformed(evt);
    }
});
getContentPane().add(jTextField1, new org.netbeans.lib.awtextra.AbsoluteConstraints(92, 67, 360, 57));

jTextField2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField2ActionPerformed(evt);
    }
});
getContentPane().add(jTextField2, new org.netbeans.lib.awtextra.AbsoluteConstraints(92, 142, 360, 58));

jLabel3.setFont(new java.awt.Font("Segoe UI", 0, 24));
jLabel3.setText("Details ");
getContentPane().add(jLabel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 128, -1));

jButton1.setText("Submit");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
getContentPane().add(jButton1, new org.netbeans.lib.awtextra.AbsoluteConstraints(507, 84, -1, -1));

jButton2.setText("Modify");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
getContentPane().add(jButton2, new org.netbeans.lib.awtextra.AbsoluteConstraints(647, 84, -1, -1));

jButton3.setText("Delete");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});
getContentPane().add(jButton3, new org.netbeans.lib.awtextra.AbsoluteConstraints(647, 160, -1, -1));

jButton4.setText("Back");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});
getContentPane().add(jButton4, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 470, -1, -1));

jButton5.setText("View");
jButton5.addActionListener(new java.awt.event.ActionListener() {
```



```

        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton5ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton5, new org.netbeans.lib.awtextra.AbsoluteConstraints(507, 160, -1, -1));

    jLabel4.setFont(new java.awt.Font("Segoe UI", 0, 18));
    jLabel4.setText("Crop Table View");
    getContentPane().add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(6, 226, -1, -1));

    jTable1.setModel(new javax.swing.table.DefaultTableModel(
        new Object [][] {
            {null, null},
            {null, null},
            {null, null},
            {null, null},
            {null, null},
            {null, null},
            {null, null},
            {null, null},
            {null, null},
            {null, null}
        },
        new String [] {
            "Crop_ID", "Crop_Name"
        }
    ) {
        Class[] types = new Class [] {
            java.lang.Integer.class, java.lang.String.class
        };

        public Class getColumnClass(int columnIndex) {
            return types [columnIndex];
        }
    });
    jTable1.addMouseListener(new java.awt.event.MouseAdapter() {
        public void mouseClicked(java.awt.event.MouseEvent evt) {
            jTable1MouseClicked(evt);
        }
    });
    jScrollPane1.setViewportView(jTable1);

    getContentPane().add(jScrollPane1, new org.netbeans.lib.awtextra.AbsoluteConstraints(82, 285, 479, 179));

    jLabel5.setIcon(new javax.swing.ImageIcon(getClass().getResource("/images (1).jpg")));
    jLabel5.setText("jLabel5");
    getContentPane().add(jLabel5, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 740, 490));

    pack();
}

private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    try
    {

```

```

        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());
        Connection con = (Connection) DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
,"srujana","vasavi");

        Statement statement = con.createStatement();
        String query = "INSERT INTO CROP VALUES(" + ""+jTextField1.getText() + ","+""+ jTextField2.getText()+""+""+""";
        ResultSet rs = statement.executeQuery(query);

        JOptionPane.showMessageDialog(new JFrame(), "Inserted Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);
        rs.close();
        statement.close();
        con.close();
    }

    catch(Exception e)
    {
        JOptionPane.showMessageDialog(new JFrame(),e, "ERROR", JOptionPane.ERROR_MESSAGE);
    }

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

    dispose();
}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

    try
    {
        if(jTable1.getRowCount()==0)
        {
            JOptionPane.showMessageDialog(this, "Please View the table to Update", "Notice",
JOptionPane.INFORMATION_MESSAGE);

        }

        else
        {

            int r = jTable1.getSelectedRow();

            if(r<0)
            {
                JOptionPane.showMessageDialog(this, "Please select single Row from View table to Update", "Notice",
JOptionPane.INFORMATION_MESSAGE);
            }

            else
            {
                DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());
                Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE" ,"srujana","vasavi");
                Statement statement = con.createStatement();
                ResultSet rs = statement.executeQuery(query);
            }
        }
    }
}

```

```

        JOptionPane.showMessageDialog(new JFrame(), "Updated Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);
        rs.close();
        statement.close();
        con.close();
    }
}

}

        catch(Exception e)
        {
            JOptionPane.showMessageDialog(new JFrame(),e, "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);
        }

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
try
    {
        if(jTable1.getRowCount()==0)
        {
            JOptionPane.showMessageDialog(this, "Please View the table to Delete", "Notice",
JOptionPane.INFORMATION_MESSAGE);

        }

        else
        {
            int r = jTable1.getSelectedRow();

            if(r<0)
            {
                JOptionPane.showMessageDialog(this, "Please select single Row from view table to Delete", "Notice",
JOptionPane.INFORMATION_MESSAGE);
            }

            else
            {
                DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

                Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE" ,"srujana","vasavi");

                Statement statement = con.createStatement()

                String query = "DELETE from crop where ID = " + jTextField1.getText() + "";
                ResultSet rs = statement.executeQuery(query);

                JOptionPane.showMessageDialog(new JFrame(), "Deleted Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);
                rs.close();
                statement.close();
                con.close();
            }
        }
    }
}

```

```

    }
    }

}

    catch(Exception e)
    {
        JOptionPane.showMessageDialog(new JFrame(),e, "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);
    }
}
private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
    try
    {
        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());
        Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE" ,"srujana","vasavi");
        Statement statement = con.createStatement();
        String query = "SELECT * FROM crop";
        ResultSet rs = statement.executeQuery(query);

        DefaultTableModel model = (DefaultTableModel)jTable1.getModel();

        model.setRowCount(0);

        while(rs.next())
        {
            model.addRow(new Object[]{ rs.getString("ID"), rs.getString("name") });
        }

        rs.close();
        statement.close();
        con.close();

    }

    catch(Exception e)
    {
        JOptionPane.showMessageDialog(new JFrame(),e, "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);
    }
}

private void jTable1MouseClicked(java.awt.event.MouseEvent evt) {

    DefaultTableModel model = (DefaultTableModel)jTable1.getModel();
    int rowindex = jTable1.getSelectedRow();
    jTextField1.setText(model.getValueAt(rowindex,0).toString());
    jTextField2.setText(model.getValueAt(rowindex,1).toString());

}
public static void main(String args[]) {

```

```

try {
    for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
        if ("Nimbus".equals(info.getName())) {
            javax.swing.UIManager.setLookAndFeel(info.getClassName());
            break;
        }
    }
} catch (ClassNotFoundException ex) {
    java.util.logging.Logger.getLogger(Detail.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
} catch (InstantiationException ex) {
    java.util.logging.Logger.getLogger(Detail.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
} catch (IllegalAccessException ex) {
    java.util.logging.Logger.getLogger(Detail.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
} catch (javax.swing.UnsupportedLookAndFeelException ex) {
    java.util.logging.Logger.getLogger(Detail.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
}
}
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        new Detail().setVisible(true);
    }
});
}

```

```

// Variables declaration - do not modify//GEN-BEGIN:variables
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JButton jButton5;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable1;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
private javax.swing.JTextField jTextField3;
}

```

Details Form:

Details

Crop\_ID:

Submit Modify

Crop\_Name:

View Delete

Crop Table View

Crop_ID	Crop_Name

Back

## Diseases:-

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;

public class Diseases extends javax.swing.JFrame {
    public Diseases() {
        initComponents();
    }
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jLabel2 = new javax.swing.JLabel();
        jTextField2 = new javax.swing.JTextField();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jLabel4 = new javax.swing.JLabel();
        jButton4 = new javax.swing.JButton();
        jButton5 = new javax.swing.JButton();
        jLabel5 = new javax.swing.JLabel();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jLabel3 = new javax.swing.JLabel();

        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

        jLabel1.setText("Crop-ID:");
        getContentPane().add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(39, 62, 65, 25));
```

```
jTextField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField1ActionPerformed(evt);
    }
});
getContentPane().add(jTextField1, new org.netbeans.lib.awtextra.AbsoluteConstraints(122, 50, 328, 48));

jLabel2.setText("Disease Name:");
getContentPane().add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(27, 136, -1, -1));
getContentPane().add(jTextField2, new org.netbeans.lib.awtextra.AbsoluteConstraints(122, 120, 328, 48));

jButton1.setText("Submit");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
getContentPane().add(jButton1, new org.netbeans.lib.awtextra.AbsoluteConstraints(477, 63, -1, -1));

jButton2.setText("Modify");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
getContentPane().add(jButton2, new org.netbeans.lib.awtextra.AbsoluteConstraints(477, 133, -1, -1));

jButton3.setText("Delete");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});
getContentPane().add(jButton3, new org.netbeans.lib.awtextra.AbsoluteConstraints(611, 133, -1, -1));

jLabel4.setFont(new java.awt.Font("Segoe UI", 0, 24));
jLabel4.setText("Diseases");
getContentPane().add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(6, 6, 123, -1));

jButton4.setText("Back");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});
getContentPane().add(jButton4, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 470, -1, -1));

jButton5.setText("view");
jButton5.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton5ActionPerformed(evt);
    }
});
getContentPane().add(jButton5, new org.netbeans.lib.awtextra.AbsoluteConstraints(611, 63, -1, -1));
```

```

jLabel5.setFont(new java.awt.Font("Segoe UI", 0, 18));
jLabel5.setText("Diseases Table View");
getContentPane().add(jLabel5, new org.netbeans.lib.awtextra.AbsoluteConstraints(14, 194, -1, -1));

jTable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null},
        {null, null},
        {null, null},
        {null, null}
    },
    new String [] {
        "Crop-ID", "Diseases"
    }
) {
    Class[] types = new Class [] {
        java.lang.Integer.class, java.lang.String.class
    };

    public Class getColumnClass(int columnIndex) {
        return types [columnIndex];
    }
});
jScrollPane1.setViewportView(jTable1);

getContentPane().add(jScrollPane1, new org.netbeans.lib.awtextra.AbsoluteConstraints(90, 231, 470, 200));

jLabel3.setIcon(new javax.swing.ImageIcon(getClass().getResource("/images (1).jpg")));
jLabel3.setText("jLabel3");
getContentPane().add(jLabel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 770, 650));

pack();
}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
    dispose();
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    try
    {
        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());
        Connection con = (Connection) DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
        ,"srujana","vasavi");

        Statement statement = con.createStatement();
        String query = "INSERT INTO diseases VALUES('"+jTextField1.getText()+"','"+jTextField2.getText()+"'"+")";
        ResultSet rs = statement.executeQuery(query);
        JOptionPane.showMessageDialog(new JFrame(), "Inserted Successfully", "INFORMATION",
        JOptionPane.INFORMATION_MESSAGE);
        rs.close();
        statement.close();
        con.close();
    }

    catch(Exception e)

```



```

        {
            System.out.println(e);
        }
    }

    private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
        try
        {
            if(jTable1.getRowCount()==0)
            {
                JOptionPane.showMessageDialog(this, "Please View the table to Update", "Notice",
                JOptionPane.INFORMATION_MESSAGE);

            }

            else
            {

                int r = jTable1.getSelectedRow();

                if(r<0)
                {
                    JOptionPane.showMessageDialog(this, "Please select single Row from View table to Update", "Notice",
                    JOptionPane.INFORMATION_MESSAGE);
                }

                else
                {
                    DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

                    Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE", "srujana", "vasavi");
                    Statement statement = con.createStatement();
                    String query = "UPDATE diseases SET  disease='"+ jTextField2.getText() + "' WHERE id ='"+ jTextField1.getText()
+""";
                    ResultSet rs = statement.executeQuery(query);
                    JOptionPane.showMessageDialog(new JFrame(), "Updated Successfully", "INFORMATION",
                    JOptionPane.INFORMATION_MESSAGE);
                    rs.close();
                    statement.close();
                    con.close();
                }
            }

        }

        catch(Exception e)
        {
            System.out.println(e);
        }
    }

    private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
        try
        {

```

```

        if(jTable1.getRowCount()==0)
        {
            JOptionPane.showMessageDialog(this, "Please View the table to Delete", "Notice",
JOptionPane.INFORMATION_MESSAGE);

        }

        else
        {
            int r = jTable1.getSelectedRow();

            if(r<0)
            {
                JOptionPane.showMessageDialog(this, "Please select single Row from view table to Delete", "Notice",
JOptionPane.INFORMATION_MESSAGE);
            }

            else
            {
                DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());
                Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE" ,"srujana","vasavi");
                Statement statement = con.createStatement();
                String query = "DELETE from diseases where id = '" + jTextField1.getText() + "'";
                ResultSet rs = statement.executeQuery(query);
                JOptionPane.showMessageDialog(new JFrame(), "Deleted Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);
                rs.close();
                statement.close();
                con.close();
            }
        }

    }

    catch(Exception e)
    {
        System.out.println(e);
    }
}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
    try
    {
        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

        Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE" ,"srujana","vasavi");
        Statement statement = con.createStatement();
        String query = "SELECT * FROM diseases";
        ResultSet rs = statement.executeQuery(query);
        DefaultTableModel model = (DefaultTableModel)jTable1.getModel();
        model.setRowCount(0);

        while(rs.next())
        {
            model.addRow(new Object[]{ rs.getString("ID"), rs.getString("disease") });
        }
    }
}

```

```

    }
    rs.close();
    statement.close();
    con.close();
}

    catch(Exception e)
    {
        System.out.println(e);
    }

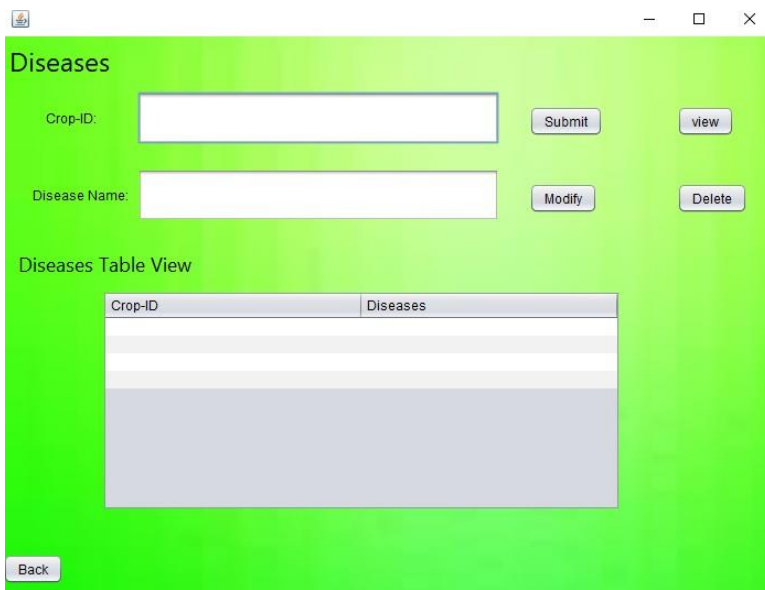
}

public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(Diseases.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(Diseases.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(Diseases.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(Diseases.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new Diseases().setVisible(true);
        }
    });
}

private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JButton jButton5;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable1;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
}

```

Disease-Form



## Factors.java

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
public class Factors extends javax.swing.JFrame {
    public Factors() {
        initComponents();
    }
    private void initComponents() {
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jLabel3 = new javax.swing.JLabel();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jTextField1 = new javax.swing.JTextField();
        jTextField2 = new javax.swing.JTextField();
        jButton4 = new javax.swing.JButton();
        jButton5 = new javax.swing.JButton();
        jLabel4 = new javax.swing.JLabel();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jLabel5 = new javax.swing.JLabel();
        setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
        getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());
        jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 24));
        jLabel1.setText("Factors");
        getContentPane().add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 93, -1));

        jLabel2.setText("Crop-ID:");
        getContentPane().add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(28, 77, -1, -1));

        jLabel3.setText("Factor:");
```

```

getContentPane().add(jLabel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(37, 163, -1, -1));

jButton1.setText("Submit");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
getContentPane().add(jButton1, new org.netbeans.lib.awtextra.AbsoluteConstraints(494, 73, -1, -1));

jButton2.setText("Modify");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
getContentPane().add(jButton2, new org.netbeans.lib.awtextra.AbsoluteConstraints(494, 160, -1, -1));

jButton3.setText("Delete");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});
getContentPane().add(jButton3, new org.netbeans.lib.awtextra.AbsoluteConstraints(633, 160, -1, -1));

jTextField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField1ActionPerformed(evt);
    }
});
getContentPane().add(jTextField1, new org.netbeans.lib.awtextra.AbsoluteConstraints(100, 53, 319, 64));
getContentPane().add(jTextField2, new org.netbeans.lib.awtextra.AbsoluteConstraints(100, 138, 319, 66));

jButton4.setText("Back");
jButton4.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton4ActionPerformed(evt);
    }
});
getContentPane().add(jButton4, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 498, -1, -1));

jButton5.setText("View");
jButton5.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton5ActionPerformed(evt);
    }
});
getContentPane().add(jButton5, new org.netbeans.lib.awtextra.AbsoluteConstraints(633, 73, -1, -1));

jLabel4.setFont(new java.awt.Font("Segoe UI", 0, 18));
jLabel4.setText("Factors Table View");
getContentPane().add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(16, 222, -1, -1));

jTable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {

```

```

        {null, null},
        {null, null},
        {null, null},
        {null, null}
    },
    new String [] {
        "Crop_id", "Factor"
    }
) {
    Class[] types = new Class [] {
        java.lang.Integer.class, java.lang.Integer.class
    };

    public Class getColumnClass(int columnIndex) {
        return types [columnIndex];
    }
});
jScrollPane1.setViewportView(jTable1);

getContentPane().add(jScrollPane1, new org.netbeans.lib.awtextra.AbsoluteConstraints(76, 265, -1, 212));

jLabel5.setIcon(new javax.swing.ImageIcon(getClass().getResource("/images (1).jpg")));
jLabel5.setText("jLabel5");
getContentPane().add(jLabel5, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 750, 520));

pack();
}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {
    dispose();
}
private void jTextField1ActionPerformed(java.awt.event.ActionEvent evt) {
}
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    try
    {
        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());
        Connection con = (Connection) DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
, "srujana", "vasavi");

        Statement statement = con.createStatement();
        String query = "INSERT INTO FACTORS VALUES(" + "" + jTextField1.getText() + ", " + "" + jTextField2.getText() + "" + ")";
        ResultSet rs = statement.executeQuery(query);

        JOptionPane.showMessageDialog(new JFrame(), "Inserted Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);
        rs.close();
        statement.close();
        con.close();
    }

    catch(Exception e)
    {
        JOptionPane.showMessageDialog(new JFrame(), e, "ERROR", JOptionPane.ERROR_MESSAGE);
    }
}

```

```

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    try
    {
        if(jTable1.getRowCount()==0)
        {
            JOptionPane.showMessageDialog(this, "Please View the table to Delete", "Notice",
JOptionPane.INFORMATION_MESSAGE);

        }

        else
        {
            int r = jTable1.getSelectedRow();

            if(r<0)
            {
                JOptionPane.showMessageDialog(this, "Please select single Row from view table to Delete", "Notice",
JOptionPane.INFORMATION_MESSAGE);
            }

            else
            {
                DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());
                Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE" ,"srujana","vasavi");

                Statement statement = con.createStatement();
                String query = "DELETE from factors where id = '" + jTextField1.getText() + "'";
                ResultSet rs = statement.executeQuery(query);

                JOptionPane.showMessageDialog(new JFrame(), "Deleted Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);
                rs.close();
                statement.close();
                con.close();
            }
        }

    }

    catch(Exception e)
    {
        JOptionPane.showMessageDialog(new JFrame(),e, "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);
    }

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    try
    {
        if(jTable1.getRowCount()==0)
        {
            JOptionPane.showMessageDialog(this, "Please View the table to Update", "Notice",
JOptionPane.INFORMATION_MESSAGE);

```

```

    }

    else
    {
        int r = jTable1.getSelectedRow();

        if(r<0)
        {
            JOptionPane.showMessageDialog(this, "Please select single Row from View table to Update", "Notice",
JOptionPane.INFORMATION_MESSAGE);
        }

        else
        {
            DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());
            Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE", "srujana", "vasavi");
            Statement statement = con.createStatement();
            String query = "UPDATE factors SET factor='" + jTextField2.getText() + "' WHERE id='" + jTextField1.getText() + "'";
            ResultSet rs = statement.executeQuery(query);

            JOptionPane.showMessageDialog(new JFrame(), "Updated Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);
            rs.close();
            statement.close();
            con.close();
        }
    }

}

catch(Exception e)
{
    JOptionPane.showMessageDialog(new JFrame(), e, "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);
}

}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {
    try
    {
        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());
        Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE", "srujana", "vasavi");
        Statement statement = con.createStatement();
        String query = "SELECT * FROM factors";
        ResultSet rs = statement.executeQuery(query);
        DefaultTableModel model = (DefaultTableModel)jTable1.getModel();
        model.setRowCount(0);
        while(rs.next())
        {
            model.addRow(new Object[]{ rs.getString("ID"), rs.getString("factor") });
        }
        rs.close();
        statement.close();
        con.close();
    }
}

```



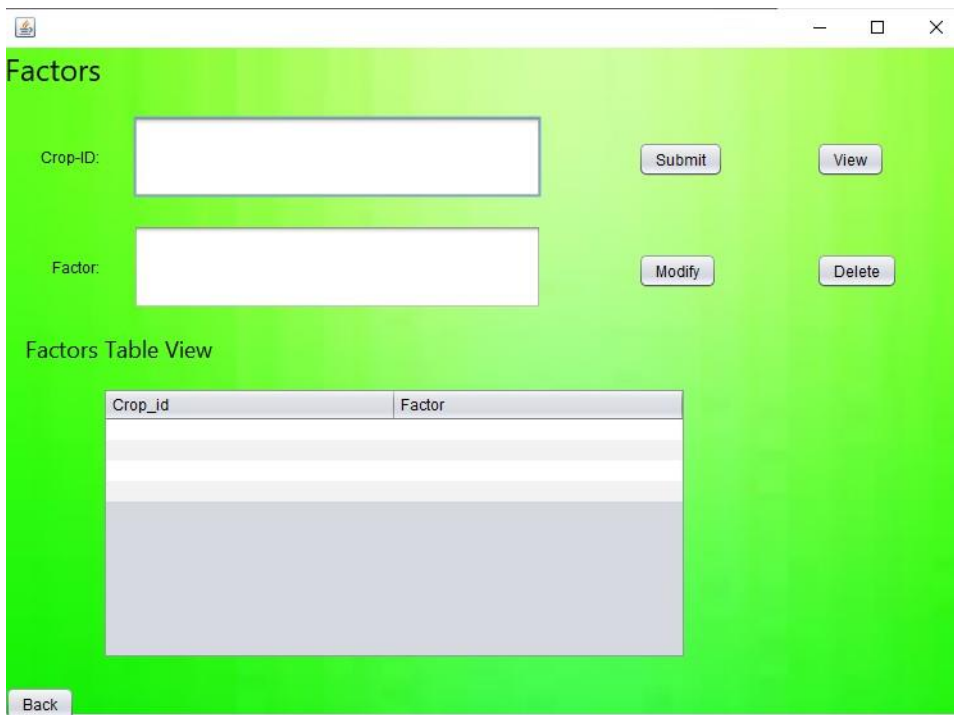
```

    }

    catch(Exception e)
    {
        JOptionPane.showMessageDialog(new JFrame(),e, "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);
    }
}
public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(Factors.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(Factors.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(Factors.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(Factors.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new Factors().setVisible(true);
        }
    });
}
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JButton jButton5;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable1;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
}

```

**Factors-Form:**



## Symptoms.java

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
public class Symptoms extends javax.swing.JFrame {
    public Symptoms() {
        initComponents();
    }
    private void initComponents() {

        jButton4 = new javax.swing.JButton();
        jLabel1 = new javax.swing.JLabel();
        jLabel2 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();
        jLabel3 = new javax.swing.JLabel();
        jTextField2 = new javax.swing.JTextField();
        jLabel4 = new javax.swing.JLabel();
        jTextField3 = new javax.swing.JTextField();
        jLabel5 = new javax.swing.JLabel();
        jTextField4 = new javax.swing.JTextField();
        jButton1 = new javax.swing.JButton();
        jButton2 = new javax.swing.JButton();
        jButton3 = new javax.swing.JButton();
        jButton5 = new javax.swing.JButton();
        jButton6 = new javax.swing.JButton();
        jLabel6 = new javax.swing.JLabel();
        jScrollPane1 = new javax.swing.JScrollPane();
        jTable1 = new javax.swing.JTable();
        jLabel7 = new javax.swing.JLabel();

        jButton4.setText("jButton4");
```

```
setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

jLabel1.setFont(new java.awt.Font("Segoe UI", 0, 24));
jLabel1.setText("Symptoms");
getContentPane().add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 134, -1));

jLabel2.setText("Crop_ID:");
getContentPane().add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(42, 64, -1, -1));

jTextField1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jTextField1ActionPerformed(evt);
    }
});
getContentPane().add(jTextField1, new org.netbeans.lib.awtextra.AbsoluteConstraints(99, 55, 445, 34));

jLabel3.setText("High:");
getContentPane().add(jLabel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(42, 122, 45, -1));
getContentPane().add(jTextField2, new org.netbeans.lib.awtextra.AbsoluteConstraints(99, 101, 445, 58));

jLabel4.setText("Low:");
getContentPane().add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(42, 189, -1, -1));
getContentPane().add(jTextField3, new org.netbeans.lib.awtextra.AbsoluteConstraints(99, 171, 445, 59));

jLabel5.setText("Medium:");
getContentPane().add(jLabel5, new org.netbeans.lib.awtextra.AbsoluteConstraints(42, 231, -1, -1));
getContentPane().add(jTextField4, new org.netbeans.lib.awtextra.AbsoluteConstraints(102, 242, 445, 58));

jButton1.setText("Submit");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
getContentPane().add(jButton1, new org.netbeans.lib.awtextra.AbsoluteConstraints(627, 119, -1, -1));

jButton2.setText("Modify");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
getContentPane().add(jButton2, new org.netbeans.lib.awtextra.AbsoluteConstraints(627, 234, -1, -1));

jButton3.setText("Delete");
jButton3.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton3ActionPerformed(evt);
    }
});
getContentPane().add(jButton3, new org.netbeans.lib.awtextra.AbsoluteConstraints(779, 234, -1, -1));

jButton5.setText("Back");
jButton5.addActionListener(new java.awt.event.ActionListener() {
```

```

        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton5ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton5, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 542, -1, -1));

    jButton6.setText("View");
    jButton6.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            jButton6ActionPerformed(evt);
        }
    });
    getContentPane().add(jButton6, new org.netbeans.lib.awtextra.AbsoluteConstraints(779, 119, -1, -1));

    jLabel6.setFont(new java.awt.Font("Segoe UI", 0, 18));
    jLabel6.setText("Symptoms Table View");
    getContentPane().add(jLabel6, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 306, -1, -1));

    jTable1.setModel(new javax.swing.table.DefaultTableModel(
        new Object [][] {
            {null, null, null, null},
            {null, null, null, null},
            {null, null, null, null},
            {null, null, null, null}
        },
        new String [] {
            "Crop_ID", "High", "Low", "Medium"
        }
    ) {
        Class[] types = new Class [] {
            java.lang.Integer.class, java.lang.String.class, java.lang.String.class, java.lang.String.class
        };

        public Class getColumnClass(int columnIndex) {
            return types [columnIndex];
        }
    });
    jScrollPane1.setViewportView(jTable1);

    getContentPane().add(jScrollPane1, new org.netbeans.lib.awtextra.AbsoluteConstraints(99, 337, -1, 186));

    jLabel7.setIcon(new javax.swing.ImageIcon(getClass().getResource("/images (1).jpg")));
    jLabel7.setText("jLabel7");
    getContentPane().add(jLabel7, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 870, 610));

    pack();
}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_jButton5ActionPerformed
    dispose();
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {//GEN-FIRST:event_jButton1ActionPerformed
    try
    {
        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());
        Connection con = (Connection) DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE"
        ,"srujana","vasavi");
    }
}

```

```

        Statement statement = con.createStatement();
        String query = "INSERT INTO symptoms values('"+jTextField1.getText()+"', '"+jTextField2.getText()+"', '"+jTextField3.getText()+"', '"+jTextField4.getText()+"')";
        ResultSet rs = statement.executeQuery(query);

        JOptionPane.showMessageDialog(new JFrame(), "Inserted Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);
        rs.close();
        statement.close();
        con.close();
    }

    catch(Exception e)
    {
        System.out.println(e);
    }

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    try
    {
        if(jTable1.getRowCount()==0)
        {
            JOptionPane.showMessageDialog(this, "Please View the table to Update", "Notice",
JOptionPane.INFORMATION_MESSAGE);

        }

        else
        {
            int r = jTable1.getSelectedRow();

            if(r<0)
            {
                JOptionPane.showMessageDialog(this, "Please select single Row from View table to Update", "Notice",
JOptionPane.INFORMATION_MESSAGE);
            }

            else
            {
                DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());

                Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE", "srujana", "vasavi");
                Statement statement = con.createStatement();
                String query = "UPDATE symptoms SET high='"+jTextField2.getText()+"',low='"+jTextField3.getText()+"',
medium='"+jTextField4.getText()+"' WHERE ID ="+jTextField1.getText();

                ResultSet rs = statement.executeQuery(query);

                JOptionPane.showMessageDialog(new JFrame(), "Updated Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);
                rs.close();
                statement.close();
                con.close();
            }
        }
    }
}

```

```

    }
    }

}

    catch(Exception e)
    {
        System.out.println(e);
    }

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {
    try
    {
        if(jTable1.getRowCount()==0)
        {
            JOptionPane.showMessageDialog(this, "Please View the table to Delete", "Notice",
JOptionPane.INFORMATION_MESSAGE);

        }

        else
        {
            int r = jTable1.getSelectedRow();

            if(r<0)
            {
                JOptionPane.showMessageDialog(this, "Please select single Row from view table to Delete", "Notice",
JOptionPane.INFORMATION_MESSAGE);
            }

            else
            {
                DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());
                Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE" ,"srujana","vasavi");

                Statement statement = con.createStatement();
                String query = "DELETE from symptoms where id = " + jTextField1.getText() + "";
                ResultSet rs = statement.executeQuery(query);

                JOptionPane.showMessageDialog(new JFrame(), "Deleted Successfully", "INFORMATION",
JOptionPane.INFORMATION_MESSAGE);
                rs.close();
                statement.close();
                con.close();
            }
        }

    }

    catch(Exception e)
    {
        System.out.println(e);
    }
}

```

```

}

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {
    try
    {
        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());
        Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE" ,"srujana","vasavi");
        Statement statement = con.createStatement();
        String query = "SELECT * FROM symptoms";
        ResultSet rs = statement.executeQuery(query);
        DefaultTableModel model = (DefaultTableModel)jTable1.getModel();
        model.setRowCount(0);

        while(rs.next())
        {
            model.addRow(new Object[]{ rs.getString("ID"), rs.getString("High"),rs.getString("Low"),rs.getString("Medium")
});
        }
        rs.close();
        statement.close();
        con.close();

    }

    catch(Exception e)
    {
        System.out.println(e);
    }

}

public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(Symptoms.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(Symptoms.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(Symptoms.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(Symptoms.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new Symptoms().setVisible(true);
        }
    });
}

```

```

private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JButton jButton5;
private javax.swing.JButton jButton6;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JTable jTable1;
private javax.swing.JTextField jTextField1;
private javax.swing.JTextField jTextField2;
private javax.swing.JTextField jTextField3;
private javax.swing.JTextField jTextField4;
}

```

Check\_severity:-

```

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.Statement;
import javax.swing.JFrame;
import javax.swing.JOptionPane;
import javax.swing.table.DefaultTableModel;
public class Check_severity extends javax.swing.JFrame {
    public Check_severity() {
        initComponents();
    }
    private void initComponents() {

        jLabel1 = new javax.swing.JLabel();
        jTextField1 = new javax.swing.JTextField();

```



```

jButton1 = new javax.swing.JButton();
jScrollPane1 = new javax.swing.JScrollPane();
jTable1 = new javax.swing.JTable();
jLabel4 = new javax.swing.JLabel();
jLabel5 = new javax.swing.JLabel();
jLabel6 = new javax.swing.JLabel();
jLabel7 = new javax.swing.JLabel();
jLabel2 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
jLabel8 = new javax.swing.JLabel();
jLabel9 = new javax.swing.JLabel();
jLabel10 = new javax.swing.JLabel();
jButton2 = new javax.swing.JButton();
jLabel11 = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
getContentPane().setLayout(new org.netbeans.lib.awtextra.AbsoluteLayout());

jLabel1.setText("Crop_ID:");
getContentPane().add(jLabel1, new org.netbeans.lib.awtextra.AbsoluteConstraints(57, 289, 70, 34));
getContentPane().add(jTextField1, new org.netbeans.lib.awtextra.AbsoluteConstraints(133, 289, 283, 34));

jButton1.setText("check");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
getContentPane().add(jButton1, new org.netbeans.lib.awtextra.AbsoluteConstraints(434, 295, -1, -1));

jTable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null}
    },
    new String [] {
        "Crop_ID", "High", "Low", "Medium"
    }
) {
    Class[] types = new Class [] {
        java.lang.Integer.class, java.lang.String.class, java.lang.String.class, java.lang.String.class
    };

    public Class getColumnClass(int columnIndex) {
        return types [columnIndex];
    }
});
jScrollPane1.setViewportView(jTable1);

getContentPane().add(jScrollPane1, new org.netbeans.lib.awtextra.AbsoluteConstraints(54, 352, 490, 135));

jLabel4.setText("1.Type crop_ID");
getContentPane().add(jLabel4, new org.netbeans.lib.awtextra.AbsoluteConstraints(28, 16, -1, -1));

```

```

jLabel5.setText("2.click on check");
getContentPane().add(jLabel5, new org.netbeans.lib.awtextra.AbsoluteConstraints(28, 44, -1, -1));

jLabel6.setText("3.Check the symptoms in the table ");
getContentPane().add(jLabel6, new org.netbeans.lib.awtextra.AbsoluteConstraints(28, 72, -1, -1));

jLabel7.setText("i. if your crop symptom is in HIGH column ");
getContentPane().add(jLabel7, new org.netbeans.lib.awtextra.AbsoluteConstraints(57, 100, -1, -1));

jLabel2.setFont(new java.awt.Font("Segoe UI", 1, 14));
jLabel2.setForeground(new java.awt.Color(255, 0, 51));
jLabel2.setText("Then your crop disease severity is HIGH");
getContentPane().add(jLabel2, new org.netbeans.lib.awtextra.AbsoluteConstraints(96, 122, -1, -1));

jLabel3.setText("ii.If your crop symptoms is in LOW column");
getContentPane().add(jLabel3, new org.netbeans.lib.awtextra.AbsoluteConstraints(57, 150, -1, -1));

jLabel8.setFont(new java.awt.Font("Segoe UI", 1, 14));
jLabel8.setForeground(new java.awt.Color(0, 204, 51));
jLabel8.setText("Then your crop disease severity is LOW");
getContentPane().add(jLabel8, new org.netbeans.lib.awtextra.AbsoluteConstraints(97, 178, -1, -1));

jLabel9.setText("ii.If your crop symptoms is in MEDIUM column");
getContentPane().add(jLabel9, new org.netbeans.lib.awtextra.AbsoluteConstraints(57, 210, -1, -1));

jLabel10.setFont(new java.awt.Font("Segoe UI", 1, 14));
jLabel10.setForeground(new java.awt.Color(153, 153, 0));
jLabel10.setText("Then your crop disease severity is MEDIUM");
getContentPane().add(jLabel10, new org.netbeans.lib.awtextra.AbsoluteConstraints(103, 238, -1, -1));

jButton2.setText("Back");
jButton2.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton2ActionPerformed(evt);
    }
});
getContentPane().add(jButton2, new org.netbeans.lib.awtextra.AbsoluteConstraints(6, 515, -1, -1));

jLabel11.setIcon(new javax.swing.ImageIcon(getClass().getResource("/download.png")));
jLabel11.setText("jLabel11");
getContentPane().add(jLabel11, new org.netbeans.lib.awtextra.AbsoluteConstraints(0, 0, 590, 540));

pack();
}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
    try
    {
        DriverManager.registerDriver(new oracle.jdbc.driver.OracleDriver());
        Connection con = DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:XE", "srujana", "vasavi");
        Statement statement = con.createStatement();
        String query = "SELECT * FROM symptoms WHERE id =" + jTextField1.getText() +"";
        ResultSet rs = statement.executeQuery(query);
        DefaultTableModel model = (DefaultTableModel)jTable1.getModel();
        model.setRowCount(0);
        while(rs.next())
        {

```

```

        model.addRow(new Object[]{ rs.getString("ID"), rs.getString("High"),rs.getString("Low"),rs.getString("Medium")
    });
    }

    rs.close();
    statement.close();
    con.close();

}

    catch(Exception e)
    {
        JOptionPane.showMessageDialog(new JFrame(),e, "INFORMATION", JOptionPane.INFORMATION_MESSAGE);
    }
}
private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {
    dispose();
}
public static void main(String args[]) {
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    } catch (ClassNotFoundException ex) {
        java.util.logging.Logger.getLogger(Check_severity.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (InstantiationException ex) {
        java.util.logging.Logger.getLogger(Check_severity.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (IllegalAccessException ex) {
        java.util.logging.Logger.getLogger(Check_severity.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    } catch (javax.swing.UnsupportedLookAndFeelException ex) {
        java.util.logging.Logger.getLogger(Check_severity.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);
    }
    java.awt.EventQueue.invokeLater(new Runnable() {
        public void run() {
            new Check_severity().setVisible(true);
        }
    });
}
private javax.swing.JButton jButton1;
private javax.swing.JButton jButton2;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel10;
private javax.swing.JLabel jLabel11;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JLabel jLabel9;

```

```
private javax.swing.JScrollPane jScrollPane1;  
private javax.swing.JTable jTable1;  
private javax.swing.JTextField jTextField1;  
}
```

1.Type crop\_ID

2.click on check

3.Check the symptoms in the table

i. if your crop symptom is in HIGH column

**Then your crop disease severity is HIGH**

ii.If your crop symptoms is in LOW column

**Then your crop disease severity is LOW**

ii.If your crop symptoms is in MEDIUM column











**Then your crop disease severity is MEDIUM**

Crop\_ID:

check

Crop_ID	High	Low	Medium

Back

 Devisrujanat Add files via upload	8b63774 16 minutes ago	 6 commits
 *Change_data.java.txt	Add files via upload	16 minutes ago
 Deatils.java.txt	Add files via upload	16 minutes ago
 Disease.java.txt	Add files via upload	16 minutes ago
 Factors.java.txt	Add files via upload	16 minutes ago
 Mainui.java.txt	Add files via upload	16 minutes ago
 README.md	Initial commit	4 hours ago
 Symptoms.java.txt	Add files via upload	16 minutes ago
 check_severity.java.txt	Add files via upload	16 minutes ago

## **GitHub-link:-**

<https://github.com/Devisrujanat/Crop-disease-severity-.git>

# TESTING

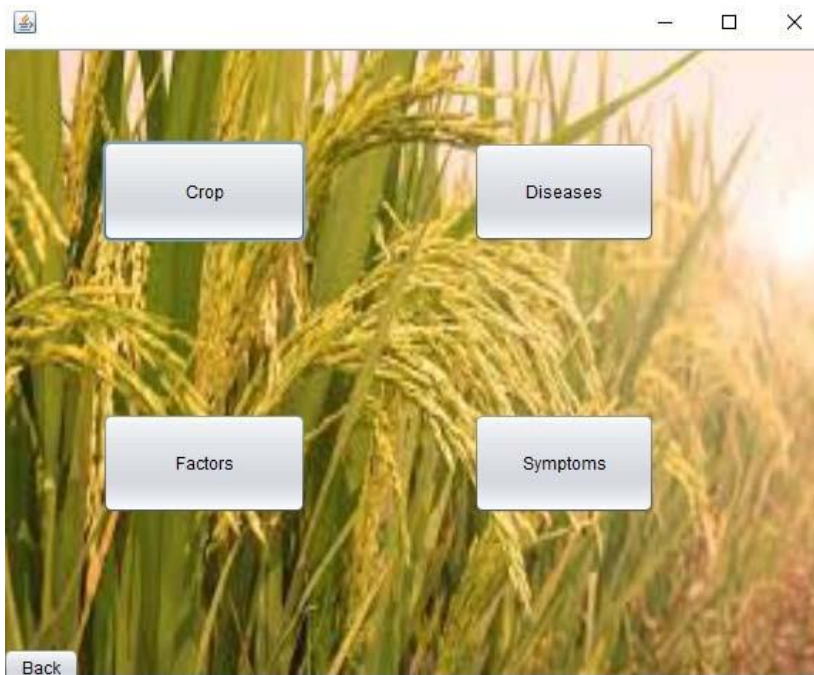
## Home page-

In the home page user can find 2 buttons in which user need to click on check severity button to know the disease severity Of the crop .Admin can click on the button edit data so that admin can edit data in tables.



## Edit Data:

If the admin click on Edit data then a other form opens which contain four buttons named crop, disease, factors, symptoms. These four are the tables which admin can edit data.



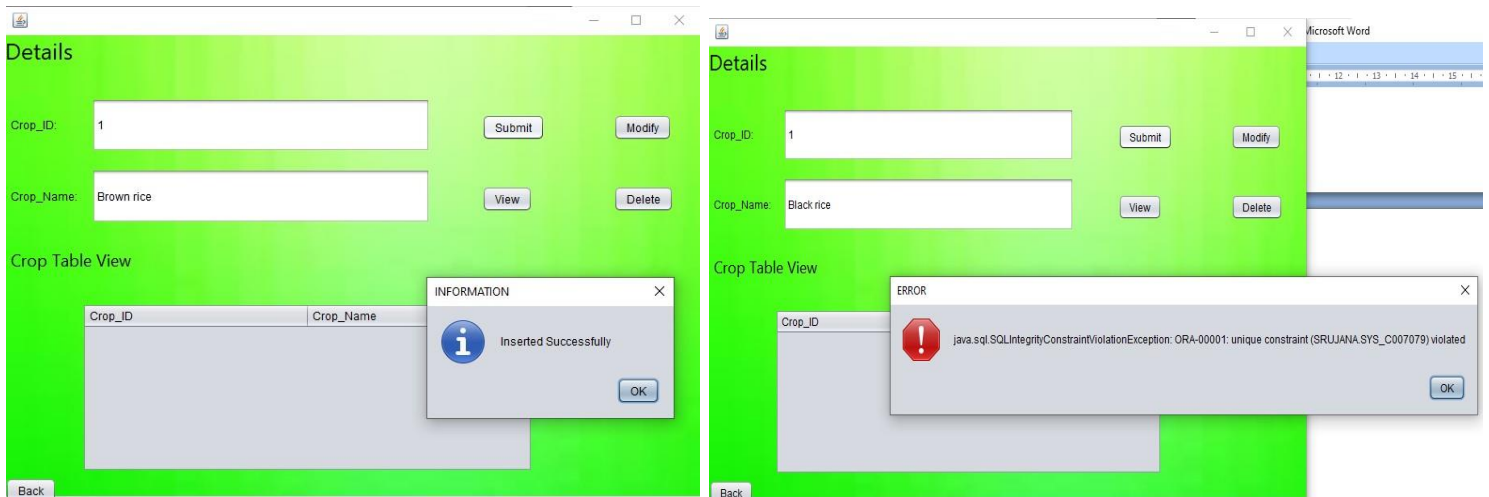
## Crop:

In the crop there will be two text fields one is crop\_ID and other is crop\_name.Admin can click on the buttons to modify submit and delete the data. crop\_ID should be integer and crop name must be a string.

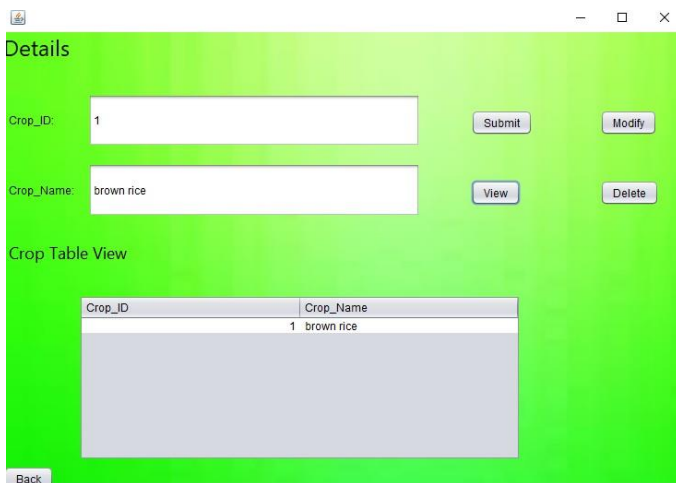
### Insert option:-

If Crop\_ID(primary key) is not repeated then it get inserted successfully .

If Crop\_ID is repeated(primary key can't have multiple values) then it show error message.



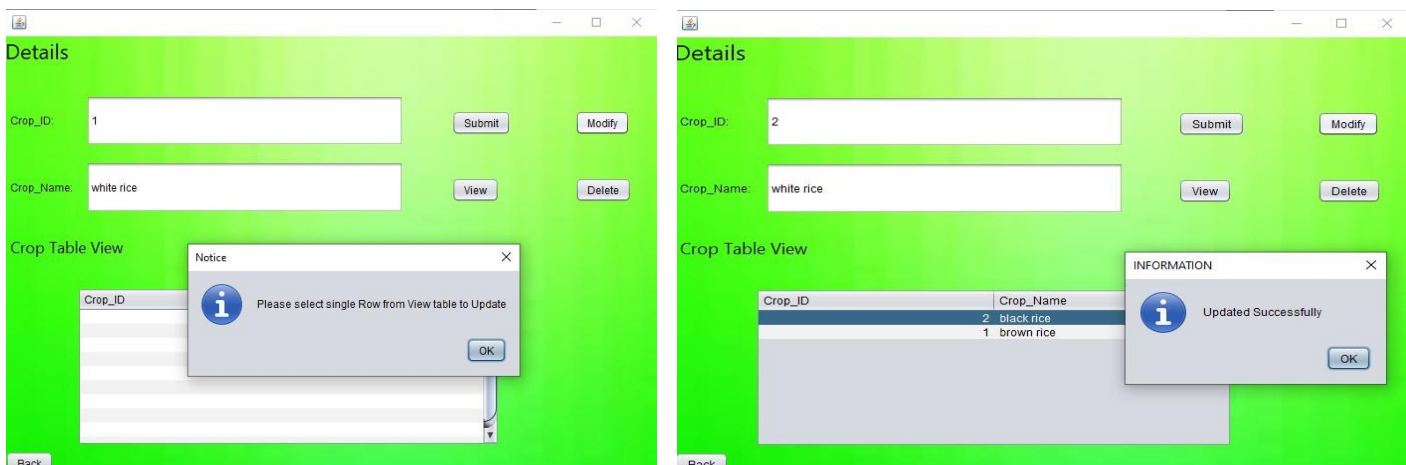
### Inserted:



### Modify Option:

To modify the data first click on view button and select a row which is to be modified and modify the data in that text field .

If we type in text field and enter data directly then it will display a notice box.



## Modified:

Details

Crop\_ID: 2

Crop\_Name: white rice

Crop Table View

Crop_ID	Crop_Name
2	white rice
1	brown rice

## View option:-

If view button is clicked then admin can view the data in the table.

Details

Crop\_ID: 2

Crop\_Name: white rice

Crop Table View

Crop_ID	Crop_Name
2	white rice
1	brown rice

## Delete option:

To delete the data first click on view button and select a row which is to be deleted. If we type in text field and enter data to delete directly then it will display a notice box.

Details

Crop\_ID: 2

Crop\_Name: white rice

Crop Table View

Crop_ID	Crop_Name
2	white rice
1	brown rice

INFORMATION

Deleted Successfully

OK

Details

Crop\_ID: 2

Crop\_Name: white rice

Crop Table View

Crop_ID	Crop_Name
2	white rice
1	brown rice

Notice

Please select single Row from view table to Delete

OK



## Deleted:

Details

Crop\_ID: 2

Crop\_Name: white rice

Crop Table View

Crop_ID	Crop_Name
1	brown rice

## Diseases:

In the crop there will be two text fields one is crop\_ID and other is Disease Name. Admin can click on the buttons to modify submit and delete the data. crop\_ID should be integer and Disease name must be a string.

## Insert option:-

Diseases

Crop-ID: 1

Disease Name: Brown spot

Diseases Table View

Crop-ID	Diseases
1	brown spot

INFORMATION

Inserted Successfully

Diseases

Crop-ID: 1

Disease Name: brown spot

Diseases Table View

Crop-ID	Diseases
1	brown spot

## Modify option:-

Diseases

Crop-ID: 1

Disease Name: black spot

Diseases Table View

Crop-ID	Diseases
1	brown spct

Notice

Please select single Row from View table to Update

Diseases

Crop-ID: 1

Disease Name: black spot

Diseases Table View

Crop-ID	Diseases
1	brown spct

INFORMATION

Updated Successfully

## Delete option:-

The first screenshot shows the 'Diseases' form with 'Crop-ID' set to 1 and 'Disease Name' set to 'black spot'. The 'Delete' button is clicked, and a 'Notice' dialog box appears with the message 'Please View the table to Delete'.

The second screenshot shows the same 'Diseases' form. The 'Delete' button is clicked, and an 'INFORMATION' dialog box appears with the message 'Deleted Successfully'.

## View option:

The screenshot shows the 'Diseases' form with 'Crop-ID' set to 1 and 'Disease Name' set to 'black spot'. The 'View' button is clicked, and the 'Diseases Table View' is displayed, showing a table with one row: '1 black spot'.

## Factors:

In the crop there will be two text fields one is crop\_ID and other is Factor Name. Admin can click on the buttons to modify submit and delete the data. crop\_ID should be integer and Factor name must be a string.

## Insert option:

The first screenshot shows the 'Factors' form with 'Crop-ID' set to 1 and 'Factor' set to 'Bacteria'. The 'Submit' button is clicked, and an 'INFORMATION' dialog box appears with the message 'Inserted Successfully'.

The second screenshot shows the same 'Factors' form. The 'Submit' button is clicked, and the 'Factors Table View' is displayed, showing a table with one row: '1 Bacteria'.

## Modify option:-

The 'Factors' application interface includes input fields for 'Crop-ID' (value: 1) and 'Factor' (value: fungus), and buttons for 'Submit', 'View', 'Modify', and 'Delete'. Below these is a 'Factors Table View' section containing a table with columns 'Crop\_id' and 'Factor'. The table has one row with '1' and 'Bacteria'. A 'Back' button is located at the bottom left.

**Notice**

Please select single Row from View table to Update

OK

**INFORMATION**

Updated Successfully

OK

## Delete:-

The 'Factors' application interface is the same as in the 'Modify' section, but the 'Factor' input field now contains 'Bacteria'. The 'Factors Table View' table shows '1' and 'Bacteria'.

**INFORMATION**

Deleted Successfully

OK

**Notice**

Please View the table to Delete

OK

## View:-

The 'Factors' application interface shows the 'View' process. The 'Crop-ID' is 1 and the 'Factor' is Bacteria. The 'Factors Table View' table shows '1' and 'Bacteria'.

Crop_id	Factor
1	Bacteria

Symptoms:

In the crop there will be four text fields one is crop\_ID ,High,low,medium. Admin can click on the buttons to modify submit and delete the data. crop\_ID should be integer and High,low,medium must be a string.

Insert:

Crop\_ID: 1

High: brown spots coalesce and leaf dries up

Low: minute circular brown spots

Medium: brown dots in big size

Submit

View

Modify

Delete

Symptoms Table View

Crop_ID	High	Low	Medium

Back

INFORMATION

i

Inserted Successfully

OK

Modify:

Crop\_ID:

High:

Low:

Medium:

Submit

View

Modify

Delete

Symptoms Table View

Crop_ID	High	Low	Medium

Back

Notice

i

Please select single Row from View table to Update

OK

Crop\_ID: 1

High: brown spots coalesce and leaf dries up

Low: minute circular brown spots

Medium: brown dots in big size and black dots

Submit

View

Modify

Delete

Symptoms Table View

Crop_ID	High	Low	Medium
1	brown spots coa...	minute circular b...	brown dots in bl...

Back

INFORMATION

i

Updated Successfully

OK

Delete:

Crop\_ID:

High:

Low:

Medium:

Submit

View

Modify

Delete

Symptoms Table View

Crop_ID	High	Low	Medium

Back

Notice

i

Please select single Row from view table to Delete

OK

Crop\_ID: 1

High: brown spots coalesce and leaf dries up

Low: minute circular brown spots

Medium: brown dots in big size and black dots

Submit

View

Modify

Delete

Symptoms Table View

Crop_ID	High	Low	Medium
1	brown spots coa...	minute circular b...	brown dots in bl...

Back

INFORMATION

i

Deleted Successfully

OK

Symptoms

Crop\_ID: 1

High: brown spots and leaves dry up

Low: small brown spots

Medium: brown spots in big size

Submit

View

Modify

Delete

Symptoms Table View

Crop_ID	High	Low	Medium
1	brown spots and leaves dry up	small brown spots	brown spots in big size

Back

### Check severity:-

1.Type crop\_ID

2.click on check

3.Check the symptoms in the table

i. if your crop symptom is in HIGH column

**Then your crop disease severity is HIGH**

ii.If your crop symptoms is in LOW column

**Then your crop disease severity is LOW**

ii.If your crop symptoms is in MEDIUM column

**Then your crop disease severity is MEDIUM**

Crop\_ID: 1

check

Crop_ID	High	Low	Medium
1	brown spots and leave...	small brown spots	brown spots in big size

Back

If user or admin click on back option the previous form will open and existing form will get disappeared.

## RESULTS

I have successfully completed the mini-project *“Crop Disease severity”* .

## **DISCUSSION AND FUTURE WORK**

This project contains the basic project to check severity of disease for the crop. It has a very basic user interface. Future scope would be to make the UI more appealing by using graphics. One more feature would be to add will be user can give the symptoms and it will automatically say the percentage of severity and precautions that to be taken to decrease the severity. We can also think of including a feedback system to allow the users to leave their valuable feedback after using this app. Making this feedback to be publicly viewable, would attract many more users to use this app.

## **REFERENCES**

- <https://docs.oracle.com/javase/7/docs/api/>
- <https://www.javatpoint.com/java-swing>
- <https://stackoverflow.com/>